

Raw Material and Energy Powder Surcharges 2019 - USD/lb.
(applicable at time of shipment)



If an alloy you purchase is not listed, call Carpenter within the U.S. at 800-654-6543.
Outside the U.S., call 1-610-208-2000, press 2 for Customer Service.

Chrome-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® NiCr49Nb1	3.41	3.38	3.52	3.56	3.32							
UltraFine® 17Cr-4Ni MA 3X	2.46	2.35	2.32	2.30	2.11							
CarTech UltraFine® 316 MA	3.85	3.77	3.93	4.02	3.75							
CarTech UltraFine® 420 MA	1.82	1.65	1.52	1.47	1.28							

Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 1	14.33	9.13	4.93	2.95	4.27							
CarTech Micro-Melt® 12	15.34	9.48	4.68	2.41	3.93							
CarTech Micro-Melt® 188	12.74	8.63	5.47	3.96	4.98							
CarTech Micro-Melt® 188B	12.74	8.63	5.47	3.96	4.98							
CarTech Micro-Melt® 1B	15.18	9.59	5.09	2.95	4.38							
CarTech Micro-Melt® 21	15.25	9.05	3.89	1.49	3.15							
CarTech Micro-Melt® 50Nb	14.07	8.42	3.73	1.52	3.03							
CarTech Micro-Melt® 6	11.61	7.02	3.22	1.42	2.61							
CarTech Micro-Melt® 6LF	15.90	9.45	4.06	1.52	3.25							
CarTech Micro-Melt® 9810	15.73	9.37	4.08	1.58	3.29							
CarTech Micro-Melt® A4783	13.17	8.10	3.95	1.97	3.35							
CarTech Micro-Melt® BioDur® CCM®	21.71	15.22	9.85	6.94	9.09							
CarTech Micro-Melt® CCM	15.19	9.00	3.84	1.45	3.10							
CarTech Micro-Melt CCM® GADS	15.19	9.00	3.84	1.45	3.10							
CarTech Micro-Melt® CCM PLUS®	15.19	9.00	3.84	1.45	3.10							
CarTech Micro-Melt® F	11.47	7.87	5.11	3.78	4.64							
CarTech Micro-Melt® F75	15.84	9.36	3.95	1.44	3.18							
CarTech Micro-Melt® G155	16.64	10.39	5.49	3.37	4.99							
CarTech Micro-Melt® G185	15.00	9.29	4.62	2.40	3.92							
CarTech Micro-Melt® G190	14.79	9.47	5.37	3.62	4.92							
CarTech Micro-Melt® G195	10.38	6.63	3.58	2.10	3.10							
CarTech Micro-Melt® HS31	14.95	9.26	4.61	2.40	3.91							
CarTech Micro-Melt® Merl72	14.93	9.97	5.87	3.92	5.08							
CarTech Micro-Melt® Mo1	14.63	9.27	4.94	2.93	4.28							
CarTech Micro-Melt® P1316	15.11	9.31	4.56	2.31	3.85							
CarTech Micro-Melt® P1318	15.11	9.31	4.56	2.31	3.85							
CarTech Micro-Melt® P694	15.51	10.39	6.43	4.51	5.65							
CarTech Micro-Melt® R31233	13.93	8.19	3.48	1.28	2.92							
CarTech Micro-Melt® TDCA	10.07	6.46	3.53	2.11	3.06							
CarTech Micro-Melt® WearCorr™	14.03	8.57	4.08	1.99	3.43							

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CarTech UltraFine CCM®	15.19	9.00	3.84	1.45	3.10							
CarTech UltraFine® CCM PLUS®	15.19	9.00	3.84	1.45	3.10							
CarTech UltraFine® CoCr	16.13	9.52	4.01	1.44	3.22							
CarTech UltraFine® F-75HP	15.84	9.37	3.97	1.46	3.19							
CarTech UltraFine® H25	15.45	9.92	5.52	3.44	4.88							
Micro-Melt® Maraging 509B	15.94	10.47	5.85	3.66	4.95							
CarTech Micro-Melt® CTS	15.43	8.93	3.43	0.83	2.61							
Micro-Melt Biodur CCM® LS	15.97	9.41	3.94	1.39	3.15							
Micro-Melt CCM® A764 Mod	16.07	9.46	3.95	1.38	3.16							
CarTech Micro-Melt® CoWCr	17.54	10.05	3.73	0.75	2.84							
CarTech UltraFine® FeCo50	11.15	6.19	2.04	0.07	1.52							
CarTech Micro-Melt® CCM MC	15.01	8.61	3.32	0.86	2.71							
Cobalt/Nickel-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® MP35N®	10.06	6.62	4.03	2.83	3.77	-	-	-	-	13.04	13.14	12.58
Copper-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® C18200	2.53	2.42	2.63	2.69	2.72							
CarTech Micro-Melt® CuNiSiCr	2.54	2.46	2.70	2.78	2.80							
CarTech Micro-Melt® G72	2.69	2.75	3.13	3.26	3.23							
CarTech UltraFine® CuNiSnP	3.23	3.24	3.49	3.56	3.52							
CarTech UltraFine® C621	2.88	2.86	3.11	3.18	3.17							
CarTech UltraFine® Cu15SnP	3.24	3.22	3.45	3.52	3.50							
CarTech UltraFine® Cu-Electr.	2.51	2.40	2.61	2.67	2.71							
CarTech UltraFine® Copper-MIM	2.53	2.41	2.63	2.69	2.73							
UltraFine® C18000	2.52	2.42	2.64	2.70	2.73							
Iron-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 5506	2.10	2.00	2.06	2.11	1.97							
CarTech Micro-Melt® 654SMO	1.67	1.60	1.77	1.88	1.85							
CarTech Micro-Melt® 904L	1.61	1.59	1.79	1.89	1.86							
CarTech Micro-Melt® BS2766	1.59	1.11	0.83	0.70	0.74							
CarTech Micro-Melt® Fe LC	0.19	0.12	0.13	0.13	0.14							
CarTech Micro-Melt® Fe Powder	0.20	0.12	0.13	0.13	0.15							
CarTech Micro-Melt® LAW 100X	0.19	0.12	0.13	0.13	0.15							
CarTech Micro-Melt® Sanicro 28	1.69	1.70	1.94	2.05	2.02							
CarTech Micro-Melt® 28	1.69	1.70	1.94	2.05	2.02							
CarTech Micro-Melt NCORR®	1.87	1.80	1.83	1.85	1.72							
CarTech Micro-Melt® FeCoTa	28.28	23.85	18.51	16.11	15.49							
CarTech Micro-Melt® FeCoCrNi	7.64	4.99	2.86	1.83	2.49							
CarTech Micro-Melt® FeCoTaMo	24.42	19.10	13.83	11.50	11.79							

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CarTech Micro-Melt® AFA25	2.15	2.13	2.34	2.39	2.28							
CarTech Micromelt® AFA25	2.15	2.13	2.34	2.39	2.28							
CarTech Micro-Melt Ferrium®M41	9.10	8.19	8.55	9.31	9.04							
CarTech Micro-Melt® 2507 SDplx	1.51	1.42	1.42	1.45	1.33							
CarTech Micro-Melt® VeKo25Cr	3.47	2.97	2.89	2.70	2.17							
CarTech Micro-Melt® 1.4313	0.80	0.71	0.72	0.72	0.67							
Micro-Melt Aermet-for-tooling®	3.59	2.28	1.28	0.80	1.15							
CarTech Micro-Melt® A-286	2.14	2.06	2.20	2.21	2.01							

Iron/Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt Hiperco® 50	11.91	6.93	2.85	0.85	2.05							
CarTech UltraFine Hiperco® 50	11.81	6.88	2.84	0.86	2.04							
Micro-Melt Hiperco® 50 HS	14.13	8.85	4.69	2.50	3.26							

Iron/Nickel (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® GHS 4	2.71	2.67	2.96	3.06	2.91							

Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech IN100	4.00	4.02	4.40	4.60	4.39							
CarTech Micro-Melt® 230	6.31	5.66	5.56	5.47	5.46							
CarTech Micro-Melt® 247LC	8.03	6.95	6.32	5.97	6.02							
CarTech Micro-Melt®247LC Mod 1	7.86	6.80	6.18	5.85	5.93							
CarTech Micro-Melt® 282	5.79	4.82	4.33	4.11	4.24							
CarTech Micro-Melt® 50/50	3.31	3.37	3.60	3.66	3.42							
CarTech Micro-Melt® 600	3.05	3.28	3.77	3.93	3.77							
CarTech Micro-Melt® 622	4.57	4.52	4.92	5.14	4.95							
CarTech Micro-Melt® 622 AWS	4.64	4.58	4.97	5.20	4.99							
CarTech Micro-Melt® 625	3.50	3.52	3.92	4.08	3.88							
CarTech Micro-Melt® 625+W	4.11	4.19	4.68	4.86	4.63							
CarTech Micro-Melt® 625AM	4.35	4.43	4.96	5.15	4.92							
CarTech Micro-Melt® 625Ar	4.35	4.43	4.96	5.15	4.92							
CarTech Micro-Melt® 625LFL	4.33	4.41	4.93	5.13	4.90							
CarTech Micro-Melt® 625M	4.46	4.53	5.09	5.28	5.04							
CarTech Micro-Melt® 713C	3.39	3.57	4.07	4.27	4.11							
CarTech Micro-Melt® 718	3.41	3.50	3.95	4.06	3.86							
CarTech Micro-Melt® 80/20	3.28	3.51	4.01	4.17	4.00							
CarTech Micro-Melt® 825	2.21	2.31	2.67	2.82	2.76							
CarTech Micro-Melt® A4777	2.99	3.26	3.82	4.01	3.87							
CarTech Micro-Melt® A4778	3.06	3.40	4.04	4.25	4.13							
CarTech Micro-Melt® A4779	3.13	3.47	4.12	4.34	4.22							
CarTech Micro-Melt® A4782	3.01	3.22	3.66	3.80	3.64							

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CarTech Micro-Melt® B27	3.15	3.49	4.15	4.37	4.25
CarTech Micro-Melt® B40	3.07	3.34	3.90	4.08	3.94
CarTech Micro-Melt® B56	2.98	3.22	3.71	3.88	3.73
CarTech Micro-Melt® B60+	2.94	3.17	3.64	3.80	3.64
CarTech Micro-Melt® C-276	4.88	4.80	5.24	5.51	5.33
CarTech Micro-Melt® C-901	3.96	4.00	4.43	4.66	4.47
CarTech Micro-Melt® G142	3.04	3.26	3.73	3.88	3.72
CarTech Micro-Melt® G173	6.94	5.96	5.25	4.85	4.89
CarTech Micro-Melt® G183	5.72	4.84	4.45	4.24	4.37
CarTech Micro-Melt® G186	6.21	4.86	4.00	3.57	3.86
CarTech Micro-Melt® G192	3.05	3.24	3.66	3.80	3.63
CarTech Micro-Melt® G202	3.41	3.49	3.94	4.05	3.86
CarTech Micro-Melt® G207	3.20	3.46	3.98	4.16	3.99
CarTech Micro-Melt® G81	3.01	3.22	3.66	3.80	3.64
CarTech Micro-Melt® GHS-4	3.03	2.98	3.23	3.33	3.11
CarTech Micro-Melt® HX	3.40	3.39	3.70	3.86	3.69
CarTech Micro-Melt® HyMu 800	3.22	3.44	4.03	4.26	4.14
CarTech Micro-Melt® IN738	6.32	5.41	4.86	4.55	4.62
CarTech Micro-Melt® MAR-M-247	8.45	7.28	6.54	6.16	6.22
CarTech Micro-Melt® N5A	5.87	4.53	3.62	3.13	3.42
CarTech Micro-Melt® N5A/N5B	5.83	4.49	3.56	3.08	3.36
CarTech Micro-Melt® N5B	5.74	4.39	3.45	2.95	3.24
CarTech Micro-Melt® NFM 24	6.30	4.77	3.72	3.19	3.55
CarTech Micro-Melt® NiCoCrMo	6.70	5.13	4.08	3.57	3.92
CarTech Micro-Melt® NiCrMoAl	3.38	3.57	4.08	4.29	4.15
CarTech Micro-Melt® NiCrMoB	4.22	4.30	4.81	5.09	4.91
CarTech Micro-Melt® TDCA/TDCB	9.18	6.01	3.46	2.23	3.05
CarTech Micro-Melt® TDCB	7.47	5.15	3.35	2.45	3.02
CarTech UltraFine® 713C	3.38	3.56	4.06	4.25	4.09
CarTech UltraFine® 718	2.76	2.85	3.19	3.31	3.17
CarTech UltraFine® Alloy X	3.20	3.05	3.25	3.35	3.23
CarTech UltraFine® HX	3.80	3.65	3.85	3.96	3.83
CarTech UltraFine® K500	5.96	6.14	7.31	7.34	6.98
CarTech UltraFine® NiCoCrAlY	6.78	4.68	3.10	2.30	2.90
CarTech Micro-Melt® BRB	4.93	4.21	3.88	3.66	3.79
CarTech Micro-Melt® G204	3.00	3.28	3.84	4.03	3.90
CarTech Micro-Melt® Waspaloy	6.07	4.85	4.10	3.72	3.95
CarTech Micro-Melt® A914	6.84	5.14	3.98	3.36	3.85
CarTech Micro-Melt® 5 Fe	10.36	6.61	3.61	2.15	3.20
CarTech Micro-Melt® 725	4.01	4.10	4.61	4.79	4.58
CarTech UltraFine® 625	4.35	4.43	4.96	5.15	4.92

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CarTech UltraFine® Fe-50Ni	1.75	1.90	2.25	2.37	2.31
CarTech Micro-Melt® L1	4.65	4.66	5.15	5.33	5.11
CarTech Micro-Melt® Ni-24.5Cr	3.31	3.68	4.38	4.61	4.48
CarTech Micro-Melt® HX-1LC	3.92	3.71	3.86	3.95	3.84
CarTech Micro-Melt® R95	5.77	5.05	4.89	4.72	4.78
CarTech Micro-Melt® R125-1	8.22	7.06	6.30	5.91	5.96
CarTech Micro-Melt® C263	7.40	5.53	4.23	3.60	4.01
CarTech Micro-Melt® 718 AM	3.38	3.47	3.92	4.03	3.83
CarTech Micro-Melt® 690	3.04	3.18	3.52	3.63	3.44
CarTech Micro-Melt® 82	3.50	3.71	4.24	4.38	4.18
Micro-Melt® STAL18SILAY	7.07	6.45	6.03	5.79	5.64
CarTech Micro-Melt® 738 LC	6.30	5.47	5.03	4.76	4.80
CarTech Micro-Melt® 263	7.60	5.67	4.33	3.69	4.12
CarTech Micro-Melt® HX LC	3.80	3.65	3.85	3.96	3.83
CarTech Micro-Melt® HX-4	3.79	3.64	3.84	3.94	3.82
CarTech Micro-Melt® R77	6.25	4.90	4.04	3.60	3.90
CarTech Micro-Melt® 109 Mod	7.84	5.97	4.59	3.88	4.23
CarTech Micro-Melt® Ni60H	2.97	3.20	3.67	3.83	3.68
CarTech Micro-Melt® 625F-1	4.23	4.30	4.80	4.99	4.76
CarTech Micro-Melt® 792	7.80	6.77	6.06	5.69	5.68
CarTech Micro-Melt® NiCrAlY	2.97	3.15	3.57	3.70	3.54
CarTech Micro-Melt® 720	6.41	5.01	4.11	3.66	3.94
CarTech UltraFine® Ni20Cr	3.34	3.58	4.09	4.26	4.08
CarTech UltraFine® NiCrMo	3.15	2.99	3.12	3.18	3.09
CarTech UltraFine® 90	6.62	5.00	3.86	3.27	3.64
CarTech UltraFine® M400	3.03	3.24	3.78	3.96	3.89
CarTech UltraFine® R77	6.24	4.89	4.03	3.59	3.88
UltraFine® Maraging 247	8.18	7.02	6.32	5.95	6.03
CarTech UltraFine® HyMu 800	3.22	3.44	4.03	4.26	4.14
CarTech Micro-Melt® 75	2.78	3.04	3.59	3.78	3.69

Tool Steel (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt Custom 470®	0.71	0.67	0.76	0.79	0.79							
CarTech Micro-Melt® 100	0.99	0.89	0.95	1.00	1.00							
CarTech Micro-Melt® 100Cr6	0.20	0.13	0.14	0.14	0.15							
CarTech Micro-Melt® 1045	0.19	0.12	0.13	0.13	0.15							
CarTech Micro-Melt® 15Cr-5Ni	0.88	0.79	0.80	0.80	0.75							
CarTech Micro-Melt® 16MnCr5	0.20	0.13	0.14	0.14	0.15							
CarTech Micro-Melt® 17Cr-4Ni	0.51	0.44	0.49	0.50	0.52							
CarTech Micro-Melt® 20-4	2.62	2.21	2.12	1.95	1.55							
CarTech Micro-Melt®2205 Duplex	0.81	0.72	0.78	0.82	0.82							

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CarTech Micro-Melt®2505 SDplx	0.85	0.76	0.81	0.86	0.86
CarTech Micro-Melt® 2205M	0.82	0.73	0.78	0.83	0.83
CarTech Micro-Melt® 23	3.24	2.81	2.78	2.70	2.38
CarTech Micro-Melt® 2357	0.94	0.88	0.98	1.03	1.03
CarTech Micro-Melt® 23S	3.23	2.81	2.78	2.69	2.37
CarTech Micro-Melt® 25-10-10	2.66	2.40	2.38	2.44	2.32
CarTech Micro-Melt® 253	1.40	1.22	1.27	1.36	1.35
CarTech Micro-Melt® 254SMO	1.42	1.35	1.49	1.58	1.56
CarTech Micro-Melt® 25-7-4	1.00	0.90	0.97	1.03	1.03
CarTech Micro-Melt® 2739	5.71	4.58	4.05	3.64	3.29
CarTech Micro-Melt® 2888	3.63	2.45	1.64	1.26	1.56
CarTech Micro-Melt® 2906	0.83	0.74	0.81	0.85	0.86
CarTech Micro-Melt® 30	4.51	3.52	3.01	2.69	2.54
CarTech Micro-Melt® 304	0.56	0.53	0.59	0.61	0.62
CarTech Micro-Melt® 304B4	1.24	1.19	1.24	1.25	1.17
CarTech Micro-Melt® 304B6	1.24	1.19	1.24	1.25	1.17
CarTech Micro-Melt® 304B7	1.26	1.22	1.27	1.28	1.19
CarTech Micro-Melt® 304L	1.10	1.04	1.06	1.06	0.99
CarTech Micro-Melt® 308L Mod	0.63	0.59	0.67	0.70	0.70
CarTech Micro-Melt® 309L	1.42	1.35	1.39	1.40	1.30
CarTech Micro-Melt® 30LS	5.34	4.05	3.31	2.89	2.80
CarTech Micro-Melt® 30Nb	5.40	4.09	3.33	2.88	2.79
CarTech Micro-Melt® 312	0.66	0.62	0.69	0.71	0.72
CarTech Micro-Melt® 316L	0.78	0.72	0.80	0.84	0.84
CarTech Micro-Melt® 316L AWS	0.85	0.79	0.89	0.93	0.93
CarTech Micro-Melt® 316L+S	0.85	0.79	0.89	0.93	0.93
CarTech Micro-Melt® 316LHSi	1.45	1.37	1.43	1.46	1.37
CarTech Micro-Melt® 316LN	1.41	1.33	1.39	1.42	1.34
CarTech Micro-Melt® 316Lx1.5	1.14	1.08	1.21	1.28	1.27
CarTech Micro-Melt® 347H	0.64	0.60	0.69	0.71	0.72
CarTech Micro-Melt® 410	0.29	0.22	0.24	0.23	0.24
CarTech Micro-Melt® 410L	0.60	0.50	0.48	0.47	0.43
CarTech Micro-Melt® 4112	0.41	0.32	0.34	0.35	0.36
CarTech Micro-Melt® 4130	0.25	0.17	0.19	0.19	0.20
CarTech Micro-Melt® 4140	0.23	0.16	0.16	0.16	0.17
CarTech Micro-Melt® 416R	0.31	0.23	0.25	0.25	0.27
CarTech Micro-Melt® 420	0.63	0.54	0.51	0.49	0.45
CarTech Micro-Melt® 420 LCM	0.64	0.54	0.52	0.50	0.46
CarTech Micro-Melt® 420-CW	4.84	4.16	4.00	3.64	2.74
CarTech Micro-Melt® 420LC	0.63	0.54	0.51	0.49	0.45
CarTech Micro-Melt® 422	0.93	0.81	0.80	0.79	0.75

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CarTech Micro-Melt® 431	0.79	0.70	0.68	0.66	0.61
CarTech Micro-Melt® 4340	0.25	0.19	0.22	0.22	0.23
CarTech Micro-Melt® 4370	1.07	1.01	1.02	1.02	0.95
CarTech Micro-Melt® 440	3.48	2.97	2.87	2.62	2.00
CarTech Micro-Melt® 440C	0.81	0.70	0.66	0.65	0.59
CarTech Micro-Melt® 440-XH	1.11	0.96	0.92	0.89	0.78
CarTech Micro-Melt® 4848	1.67	1.64	1.72	1.74	1.62
CarTech Micro-Melt® 53	5.20	4.50	4.37	4.06	3.24
CarTech Micro-Melt® 5499	0.76	0.63	0.64	0.63	0.58
CarTech Micro-Melt® 60	6.82	5.43	4.74	4.24	3.76
CarTech Micro-Melt®6126Ni-free	1.13	1.00	0.98	0.98	0.92
CarTech Micro-Melt® 7339	0.26	0.18	0.20	0.20	0.21
CarTech Micro-Melt® 736A	1.17	1.08	1.06	1.05	0.96
CarTech Micro-Melt® 80	9.63	7.28	5.85	4.98	4.74
CarTech Micro-Melt® 800	8.76	7.58	7.26	6.57	4.88
CarTech Micro-Melt® 9038	2.24	1.92	1.89	1.79	1.50
CarTech Micro-Melt® 9040	3.22	2.78	2.74	2.64	2.23
CarTech Micro-Melt® 9055	4.52	3.53	3.02	2.71	2.55
CarTech Micro-Melt® 9078	4.69	4.01	3.86	3.53	2.71
CarTech Micro-Melt® 9098	2.45	2.09	2.03	1.87	1.47
CarTech Micro-Melt® 9655	1.26	1.17	1.28	1.36	1.35
CarTech Micro-Melt® 9659	2.00	1.87	1.90	1.94	1.81
CarTech Micro-Melt® 9660	2.00	1.87	1.90	1.94	1.81
CarTech Micro-Melt® A11	5.16	4.43	4.27	3.88	2.91
CarTech Micro-Melt® A11HC	6.10	5.27	5.09	4.69	3.59
CarTech Micro-Melt® A11LVC	4.95	4.26	4.10	3.73	2.80
CarTech Micro-Melt® A11-VP	5.45	4.69	4.51	4.10	3.08
CarTech Micro-Melt® Aermet®100	3.70	2.35	1.32	0.82	1.19
CarTech Micro-Melt® AISI8740	0.25	0.18	0.20	0.20	0.21
CarTech Micro-Melt® AM400Plus	1.02	0.96	1.00	1.03	0.97
CarTech Micro-Melt® APM 2370	0.88	0.79	0.85	0.90	0.90
CarTech Micro-Melt® CD#1	0.92	0.77	0.78	0.75	0.65
CarTech Micro-Melt® D2	0.99	0.78	0.73	0.67	0.59
CarTech Micro-Melt® D7	2.43	2.07	2.01	1.85	1.44
CarTech Micro-Melt® Duplex 22	0.81	0.72	0.78	0.82	0.83
CarTech Micro-Melt® F22	0.42	0.33	0.33	0.34	0.33
CarTech Micro-Melt® FeSi	0.21	0.15	0.15	0.15	0.17
CarTech Micro-Melt® FeSi 600	0.21	0.15	0.16	0.16	0.17
CarTech Micro-Melt® Grade 92	0.60	0.49	0.50	0.51	0.52
CarTech Micro-Melt® H13	1.52	1.29	1.25	1.18	0.95
CarTech Micro-Melt® H163	3.73	3.24	3.19	3.06	2.62

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Raw Material and Energy Powder Surcharges 2019 - USD/lb.
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CarTech Micro-Melt® HS-30	4.45	3.46	2.94	2.62	2.48
CarTech Micro-Melt® M300	3.76	2.81	2.19	1.86	2.15
CarTech Micro-Melt® M4	3.62	3.14	3.09	2.96	2.54
CarTech Micro-Melt® M4 HCS	3.84	3.34	3.29	3.16	2.73
CarTech Micro-Melt® M42	3.18	2.37	1.94	1.75	1.77
CarTech Micro-Melt® M48	5.16	4.07	3.52	3.19	3.05
CarTech Micro-Melt® M48 LS	5.20	4.10	3.55	3.22	3.08
CarTech Micro-Melt® Maxamet®	6.82	5.45	4.76	4.24	3.82
CarTech Micro-Melt® MV 11K	2.34	1.99	1.94	1.79	1.42
CarTech Micro-Melt® NOREM 02	0.37	0.33	0.37	0.38	0.38
CarTech Micro-Melt® O6	0.20	0.13	0.14	0.14	0.15
CarTech Micro-Melt® P-28	1.99	1.87	1.89	1.93	1.80
CarTech Micro-Melt® PD#1	1.76	1.49	1.46	1.38	1.14
CarTech Micro-Melt® PD#5	2.92	2.52	2.44	2.27	1.84
CarTech Micro-Melt® SA508	0.27	0.20	0.22	0.23	0.24
Micro-Melt® Sanicro 15-5PH	0.50	0.43	0.48	0.49	0.50
CarTech Micro-Melt® 15-5PH	0.50	0.43	0.48	0.49	0.50
CarTech Micro-Melt® T15	5.46	4.51	4.13	3.78	3.37
CarTech Micro-Melt® T15 Plus	5.81	4.67	4.12	3.71	3.35
CarTech Micro-Melt® TD#1	1.29	1.08	1.06	1.04	0.96
CarTech Micro-Melt® TF1	1.53	1.15	0.98	0.88	0.83
CarTech Micro-Melt® TF6	7.63	6.40	5.97	5.59	5.04
CarTech Micro-Melt® TMM	0.97	0.82	0.83	0.81	0.72
CarTech Micro-Melt® VA176	6.18	5.34	5.13	4.68	3.53
CarTech Micro-Melt® W4841Nb	0.97	0.98	1.12	1.17	1.17
CarTech Micro-Melt® X245	5.35	4.60	4.43	4.03	3.02
Micro-Melt® X4CrNiMo 16-5-1	0.41	0.36	0.40	0.41	0.42
CarTech UltraFine® 1.2709	3.31	2.36	1.75	1.47	1.71
CarTech UltraFine® 1.4435	1.94	1.83	1.88	1.92	1.79
CarTech UltraFine® 17Cr-4Ni	0.94	0.85	0.85	0.85	0.79
CarTech UltraFine® 304L	0.55	0.51	0.57	0.59	0.60
CarTech UltraFine® 316L	0.85	0.80	0.89	0.93	0.93
CarTech UltraFine® 410L	0.27	0.19	0.20	0.20	0.22
CarTech UltraFine® 430L	0.75	0.64	0.60	0.59	0.53
CarTech UltraFine® 4340	0.25	0.19	0.22	0.22	0.23
CarTech UltraFine® 4340 MA 3X	0.25	0.19	0.22	0.22	0.23
CarTech UltraFine® 440C+1.5Nb	0.93	0.83	0.83	0.80	0.73
CarTech UltraFine® D2	0.90	0.72	0.69	0.64	0.55
CarTech UltraFine® Fe14MnC	0.22	0.16	0.17	0.17	0.18
UltraFine® Fe17Cr11Mn3Mo	1.12	0.99	0.97	0.98	0.91
CarTech UltraFine® FeCrMnMo	1.12	0.99	0.97	0.98	0.91

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Raw Material and Energy Powder Surcharges 2019 - USD/lb.
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CarTech UltraFine® Fe-30Cr	1.17	1.04	0.97	0.93	0.83
CarTech UltraFine® Fe30Ni	1.13	1.19	1.41	1.48	1.44
CarTech UltraFine® Fe8Ni	0.44	0.40	0.47	0.49	0.49
CarTech UltraFine® FeCrAlY	0.35	0.27	0.27	0.28	0.30
CarTech UltraFine® FeSiAl	0.25	0.19	0.19	0.19	0.20
CarTech UltraFine® H13	0.92	0.75	0.75	0.72	0.62
CarTech UltraFine® M2	2.90	2.51	2.48	2.41	2.13
CarTech UltraFine® Mod FeSiAl	0.25	0.19	0.20	0.19	0.20
CarTech UltraFine® S7	0.45	0.36	0.37	0.38	0.37
CarTech UltraFine® SCM415	0.20	0.13	0.14	0.14	0.15
UltraFine® X2NiCoMo 18-9-5	3.24	2.32	1.72	1.45	1.68
CarTech UltraFine® X65Cr13	0.65	0.55	0.52	0.51	0.46
CarTech Micro-Melt® 65Fe35Co	7.86	4.37	1.46	0.09	1.11
CarTech Micro-Melt® 255N	1.58	1.46	1.45	1.47	1.36
CarTech Micro-Melt® 431 FM	0.78	0.69	0.67	0.66	0.61
CarTech Micro-Melt® 21-6-9	1.12	1.04	1.04	1.03	0.95
CarTech Micro-Melt® 9310	0.35	0.29	0.32	0.33	0.33
CarTech UltraFine® Fe-3Si	0.19	0.12	0.14	0.14	0.15
CarTech UltraFine® SKH57	6.48	4.96	4.08	3.56	3.46
CarTech UltraFine® Fe-6Si	0.20	0.13	0.14	0.14	0.15
CarTech UltraFine® F15	4.82	3.21	2.01	1.41	1.87
CarTech UltraFine® 347	1.12	1.06	1.10	1.11	1.03
CarTech UltraFine® Fe-18Cr	0.78	0.67	0.63	0.61	0.56
CarTech UltraFine® 4140	0.25	0.18	0.19	0.19	0.19
CarTech UltraFine® VeKo25Cr	4.19	3.65	3.59	3.39	2.83
CarTech UltraFine® 4140 MA	0.37	0.29	0.29	0.29	0.29
CarTech UltraFine® HK30	1.81	1.78	1.90	1.91	1.78
CarTech UltraFine® Fe-42Ni	1.51	1.62	1.92	2.02	1.97
CarTech UltraFine® 218	1.69	1.60	1.64	1.65	1.53
CarTech Micro-Melt® 7570	2.96	2.64	2.64	2.71	2.61
CarTech Micro-Melt Invar 36®	1.32	1.40	1.66	1.74	1.71
CarTech Micro-Melt® Alloy 1	1.03	0.96	1.01	1.03	0.97
CarTech Micro-Melt® EN25	0.36	0.29	0.32	0.33	0.33
CarTech Micro-Melt® PWC7	7.31	6.39	6.22	5.73	4.43
CarTech Micro-Melt® 4304-2	1.14	1.08	1.11	1.11	1.03
CarTech Micro-Melt® BSEC510	0.28	0.21	0.23	0.23	0.24
CarTech Micro-Melt® P21 Mod	0.44	0.38	0.41	0.41	0.39
CarTech Micro-Melt® 177-1	0.97	0.90	0.91	0.91	0.84
CarTech Micro-Melt® FeCoMo	5.17	3.54	2.43	1.97	2.36
CarTech Micro-Melt® 13Cr-8Ni	1.09	1.01	1.05	1.07	1.02
CarTech Micro-Melt® FeCrWTi	1.09	0.95	0.93	0.91	0.88

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CarTech Micro-Melt® 316L Mod-1	1.23	1.18	1.24	1.25	1.17
CarTech Micro-Melt® 316L Mod-2	1.22	1.18	1.24	1.25	1.17
CarTech Micro-Melt® 316L Mod-3	1.66	1.63	1.71	1.73	1.61
CarTech Micro-Melt® C300	3.24	2.32	1.72	1.46	1.69
CarTech Micro-Melt® 420-CW Mod	5.65	4.89	4.68	4.27	3.23
Micro-Melt Ferrium® PH48S	2.62	1.83	1.26	0.99	1.15
CarTech Micro-Melt® Fe-10Ni	0.59	0.55	0.63	0.65	0.63
Micro-Melt Ferrium® C64	4.34	2.68	1.38	0.77	1.22
CarTech Micro-Melt® SA508 Gr4N	0.45	0.38	0.41	0.41	0.41
CarTech UltraFine® 17Cr-4Ni Ar	1.04	0.95	0.96	0.96	0.89
CarTech Micro-Melt® HTMO	1.00	0.91	0.92	0.91	0.85
CarTech Micro-Melt® 1.2709	3.29	2.36	1.77	1.50	1.73
CarTech Micro-Melt® NitroMaxx	1.37	1.26	1.23	1.23	1.14
CarTech Micro-Melt® M152	1.02	0.90	0.89	0.88	0.81
CarTech Micro-Melt® FeCrAlTi	0.87	0.76	0.71	0.69	0.62
CarTech Micro-Melt® SHS8000	1.61	1.47	1.53	1.52	1.41
CarTech UltraFine® 13Cr-8Ni	1.10	1.02	1.06	1.08	1.02
CarTech UltraFine® 42CrMo4	0.25	0.18	0.19	0.19	0.19
UltraFine® BioDur 108 low Ni	1.15	1.04	1.00	0.97	0.90
CarTech UltraFine® 420	0.80	0.70	0.72	0.70	0.64
CarTech UltraFine BioDur® 108	1.15	1.04	1.00	0.97	0.90
CarTech UltraFine Custom 465®	1.03	0.97	1.03	1.05	1.00
CarTech UltraFine® Fe10Mn3Si	0.27	0.21	0.22	0.21	0.22
CarTech UltraFine® 440A	0.75	0.64	0.60	0.59	0.53
CarTech UltraFine® 15Cr-5Ni	0.93	0.85	0.86	0.86	0.81
CarTech UltraFine® X20Cr13	0.64	0.55	0.52	0.50	0.46
CarTech UltraFine® S5	0.28	0.20	0.22	0.22	0.23
CarTech UltraFine® FeCoSiNbBCu	7.51	4.49	2.12	0.92	1.74
CarTech UltraFine® 18Ni300	3.25	2.33	1.74	1.47	1.70
CarTech UltraFine® Fe6.5Si5Cr	0.36	0.28	0.28	0.27	0.26
CarTech UltraFine Custom 455®	0.93	0.87	0.92	0.93	0.88
CarTech UltraFine Custom 475®	3.19	2.25	1.60	1.32	1.51
CarTech UltraFine® FeSiNbCuB	0.92	0.85	0.99	0.97	0.93
UltraFine Hi Permeability 49®	1.69	1.83	2.17	2.28	2.23
CarTech UltraFine® X25CrMo14	0.78	0.67	0.64	0.64	0.59
CarTech UltraFine® A2	0.66	0.55	0.54	0.53	0.49
CarTech UltraFine® 303	1.14	1.07	1.09	1.10	1.02
CarTech UltraFine® FeCo35	7.86	4.37	1.46	0.09	1.11
CarTech UltraFine® 440C	0.75	0.64	0.60	0.59	0.53
CarTech UltraFine® 420Mod	5.54	4.79	4.58	4.16	3.12
CarTech Micro-Melt® 9043	3.28	2.85	2.82	2.73	2.40

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CarTech Micro-Melt® AF9628	0.34	0.26	0.29	0.30	0.31								
MS-1(N)	3.27	2.34	1.75	1.49	1.72								
CarTech Micro-Melt NiMark® 350	3.90	2.69	1.85	1.46	1.78								
CarTech UltraFine® 316L Mod	1.05	0.99	1.11	1.17	1.16								
CarTech Micro-Melt® 416	0.66	0.56	0.54	0.53	0.49								
CarTech Micro-Melt® 30CD12	0.28	0.20	0.21	0.22	0.23								
CarTech Micro-Melt® Wear 26	1.60	1.35	1.32	1.23	1.01								
CarTech Micro-Melt® Wear 20	2.58	2.20	2.13	1.96	1.53								

Tungsten/Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® Amega NM	9.76	9.01	9.30	9.46	9.36							
CarTech Micro-Melt® NT-60	11.64	10.68	10.96	11.06	11.00							
CarTech Micro-Melt® NT-60KS	11.17	10.26	10.54	10.63	10.58							
CarTech Micro-Melt® NT-60SP	11.49	10.54	10.80	10.89	10.84							
CarTech Micro-Melt® NT-70SP	12.92	11.73	11.92	11.98	11.95							
CarTech Micro-Melt® NT-65	12.31	11.24	11.47	11.55	11.51							
CarTech Micro-Melt® NT-50 SPH	10.47	9.68	10.00	10.11	10.05							

Other (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt®Pyrowear 53	0.65	0.56	0.60	0.63	0.63							
Micro-Melt® Glass Sealing 18	0.31	0.22	0.23	0.23	0.25							
CarTech UltraFine® 1.4923	2.33	2.01	1.93	1.80	1.43							
CarTech Micro-Melt® 901	2.12	2.18	2.51	2.66	2.59							
CarTech Micro-Melt® 5120	0.23	0.15	0.16	0.16	0.17							
CarTech UltraFine® 1.4848	1.65	1.62	1.70	1.71	1.60							

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